

Attorney's Docket No. 002240.P015D

Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Gary S. Chisholm, et al.

Application No.: 09/049,161

Filed: March 26, 1998

For: METHOD AND APPARATUS FOR
PRECISE POSITIONING OF
LARGE STRUCTURES

Examiner: Hernandez, O.

Art Group: 3661

Official

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GROUP 3600

Commissioner of Patents
Washington, DC 20231-9998AMENDMENT AND RESPONSE TO THE OFFICE ACTION

Sir:

In response to the Office Action mailed October 24, 2001, reconsideration of this application is respectfully requested.

FIRST CLASS CERTIFICATE OF MAILING

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on January 23, 2002
Date of DepositGeneva Walls
Name of Person Mailing Correspondence
SignatureJanuary 23, 2002
Date

REMARKS

Reconsideration of this application, as amended, is respectfully requested. The pending claims recite a precise positioning apparatus which provides a user with a present position, orientation and attitude of a structure. Further, the user is provided with a desired position, orientation and attitude of the structure. These claims are patentable over the cited references as follows.

I. 35 U.S.C. § 102

The Examiner rejected claim 11 under 35 U.S.C. § 102(e) in light of Anderson et al., U.S. Patent No. 6,032,084 ("Anderson '084"). Anderson '084 does not teach providing a user with a present attitude of a structure. Furthermore, Anderson '084 does not teach providing a user with a desired attitude of a structure. Indeed, Anderson '084 merely provides for utilizing GPS to calculate a feedlot vehicles position as explained at col. 18, ll. 66 to col. 19, ll. 21:

In Differential Mode, each GPS receiver, in addition to monitoring GPS satellite signals, will receive error information transmitted from GPS base station 31 located at some known position. As shown in FIG. 2A2, the GPS base station 31 includes a receiver 86 for monitoring GPS satellite signals transmitted from the GPS satellites. In addition, the GPS base station includes a computer system 87 which has preprogrammed into its memory the precise position at which it is located relative to the global feedlot reference system R.sub.feedlot. The function of the GPS base station computer 87 is to compare its known position (stored in its memory) with its coordinate position computed using the GPS satellite signals. The difference (i.e., error) between (i) the known GPS base station location and (ii) the calculated GPS base station location is used by modem 88 to modulate a carrier signal produced from transmitter 89. This

transmitted error signal is received by the GPS receivers mounted on each feedlot vehicle. Using the received error measure, each such GPS receiver adjusts (i.e., corrects) in real-time its calculated position, thereby overcoming the limitations of the GPS receivers operated in the Stand-Alone Mode.

In contrast, the precise positioning apparatus recited in claim 11 provides for the display of the present position, orientation and attitude of a structure associated with a GPS receiver, and the display of a desired position, orientation and attitude of the structure. Therefore, independent claim 11 is patentable over Anderson '084 under 35 U.S.C. § 102(e). Because independent claim 11 is allowable, dependent claims 12-20 are also patentable over Anderson '084 under 35 U.S.C. § 102(e).

If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 1/23 2002



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(408) 720-9397 (Facsimile)**FACSIMILE TRANSMITTAL SHEET (TRANSMITTAL TO PTO)**Deliver to: William A. Chuchlinski, Jr.Firm Name: U.S. PATENT AND TRADEMARK OFFICEFax Number: 703.305.7687 Telephone No.: _____From: Mark McCabeDate: June 6, 2002 Time: 1:27 p.m.Operator: Gayle Jacob Matter: 002240.P015DNumber of pages including cover sheet: 14In Re Patent Application of: Gary S. Chosholm, et al.Application No.: 09/049,161Filed: 3/26/1998For: METHOD AND APPARATUS FOR PRECISE POSITIONING OF LARGE
STRUCTURES

Enclosed are the following documents: _____

Supplemental Amendment and accompanying documentation.**FAX RECEIVED**

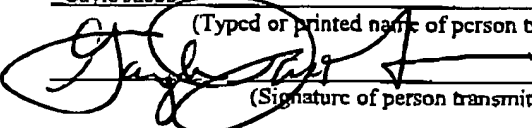
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Application No.: 09/049,161 Filing Date: 03/26/98 BSTZ Docket #: 002240.P015D Any/Sec: TNFAICM/pab
 Date Mailed: 05/07/2002 Docket Due Date(s): 05/07/2002 05/07/2002 Client: Trimble Navigation Ltd
 Title: Method and Apparatus for Precise Positioning of Large Structures

Inventor(s) Chisholm, Handsby, O'Meara, Monro

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| <input checked="" type="checkbox"/> Amendment: After Final (<u>3</u> pgs) | <input type="checkbox"/> Information Disclosure Statement & PTO/SB/08 (<u> </u> pgs) |
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(<u> </u> pages w/ cover & abstract) | <input type="checkbox"/> Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i) |
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| <input type="checkbox"/> Certificate of | <input type="checkbox"/> Petition for: <u> </u> |
| <input type="checkbox"/> Continued Prosecution Application (CPA) | <input type="checkbox"/> Request for Continued Examination (RCE) |
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PTO/SB/21 (08-08)

Approved for use through 10/31/2002. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

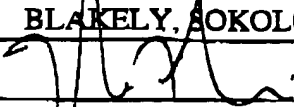
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TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application No.	09/049.161
		Filing Date	March 26, 1998
		First Named Inventor	Gary Sedman Chisholm
		Group Art Unit	3661
		Examiner Name	Olga Hernandez
Total Number of Pages In This Submission	4	Attorney Docket Number	2240P015D

ENCLOSURES (check all that apply)

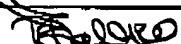
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Firm or Individual name	Tarek N. Fahmi, Reg. No. 41,402 BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
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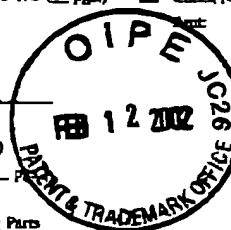
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Serial/Patent No.: 09/049,161 Filing/Issue Date: March 26, 1998
 Client: Trimble Navigation Ltd.
 Title: METHOD AND APPARATUS FOR PRECISE POSITIONING OF LARGE STRUCTURES
 BSTZ File No.: 002240.P015D Atty/Secy Initials: TNE/MCM/gw
 Date Mailed: January 23, 2001 Docket Due Date: 1/24/2002
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<input type="checkbox"/> Application - Utility (____ pgs. with cover and abstract)	<input type="checkbox"/> Information Disclosure Statement & PTO 149 (____ pgs.)	<input type="checkbox"/> Check No. _____
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Serial/Patent No.: 09/049,161 Filing/Issue Date: March 26, 1998
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Title: METHOD AND APPARATUS FOR PRECISE POSITIONING OF LARGE STRUCTURES

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Attorney's Docket No.: 002240.P015DPatentIn re the Application of: Gary S. Chisholm, et al.
(Inventor(s))Application No.: 09/049,161Filed: March 26, 1998For: METHOD AND APPARATUS FOR PRECISE POSITIONING OF LARGE STRUCTURES

(Title)

COMMISSIONER FOR PATENTS

Washington, D.C. 20231

SIR: Transmitted herewith is an Amendment for the above application.

Small entity status of this application under 37 C.F.R. §§ 1.9 and 1.27 has been established by a verified statement previously submitted.

A verified statement to establish small entity status under 37 C.F.R. §§ 1.9 and 1.27 is enclosed.

☒ No additional fee is required.

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Total Claims	*10	Minus	**21	0	X9	\$	X18	\$
Indep. Claims	*1	Minus	***3	0	X42	\$	X84	\$
<input type="checkbox"/> First Presentation of Multiple Dependent Claim(s)					+140	\$	+280	\$
					Total Add. Fee	\$	Total Add. Fee	\$0

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X Any extension or petition fees under 37 C.F.R. § 1.17.

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP

Date: 1/22/02

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